

Figure 1

$$\begin{pmatrix} y1 \\ y2 \\ y3 \\ y4 \\ y5 \\ y6 \\ y7 \\ y8 \end{pmatrix} = \frac{1}{16} \begin{pmatrix} 6, & 4, & 2, & 2, & 1, & 1, & 0, & 0, & 0, & 0 \\ 4, & 2, & 4, & 2, & 2, & 1, & 1, & 0, & 0, & 0 \\ 2, & 2, & 2, & 4, & 2, & 2, & 1, & 1, & 0, & 0 \\ 1, & 1, & 2, & 2, & 4, & 2, & 2, & 1, & 1, & 0 \\ 0, & 1, & 1, & 2, & 2, & 4, & 2, & 2, & 1, & 1 \\ 0, & 0, & 1, & 1, & 2, & 2, & 4, & 2, & 2, & 2 \\ 0, & 0, & 0, & 1, & 1, & 2, & 2, & 4, & 2, & 4 \\ 0, & 0, & 0, & 0, & 1, & 1, & 2, & 2, & 4, & 6 \end{pmatrix} \begin{pmatrix} x0 \\ x1 \\ x2 \\ x3 \\ x4 \\ x5 \\ x6 \\ x7 \\ x8 \\ x9 \end{pmatrix}$$

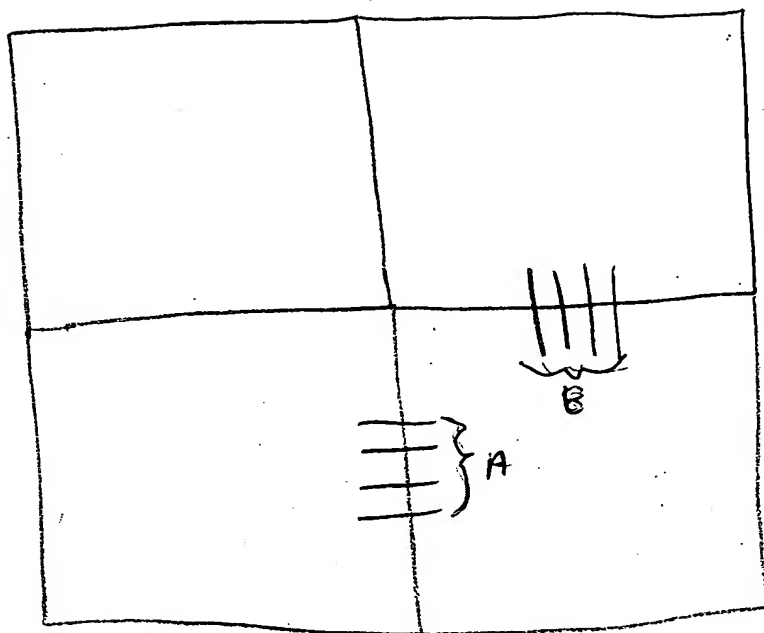
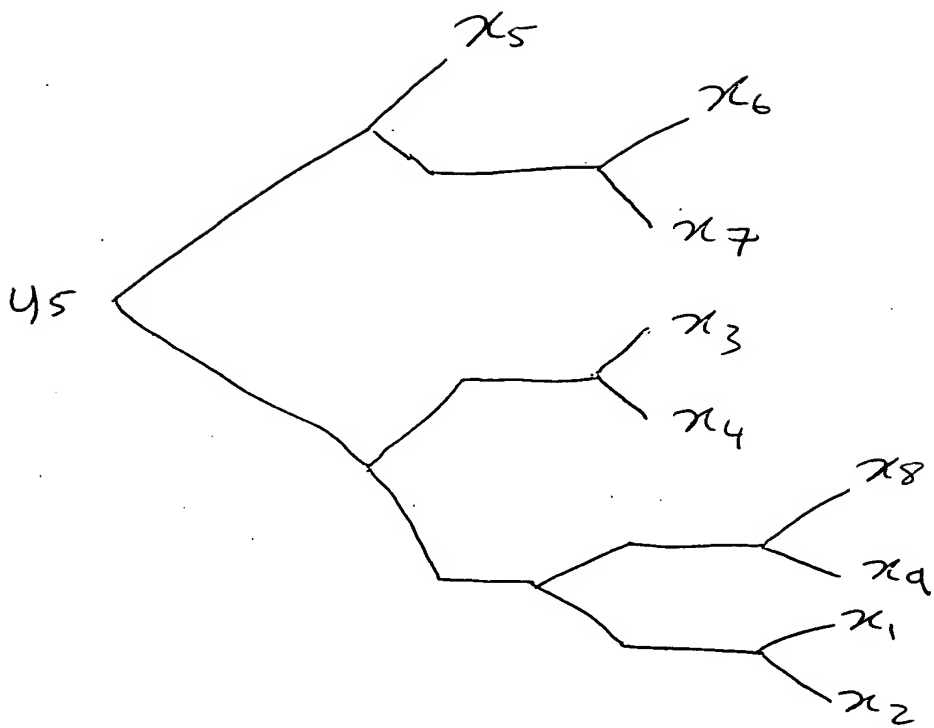
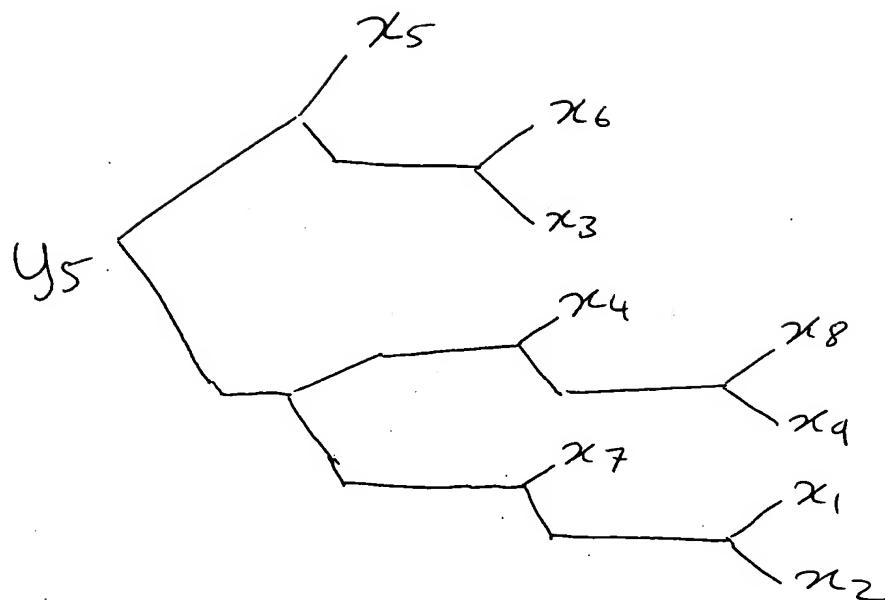


Figure 2



$$y_5 = \frac{1}{2} \left\{ \frac{1}{2} \left[x_5 + \frac{(x_6 + x_7)}{2} \right] + \frac{1}{2} \left[\frac{(x_3 + x_4)}{2} + \frac{1}{2} \left[\frac{(x_8 + x_9)}{2} + \frac{(x_1 + x_2)}{2} \right] \right] \right\}$$

Figure 3 A

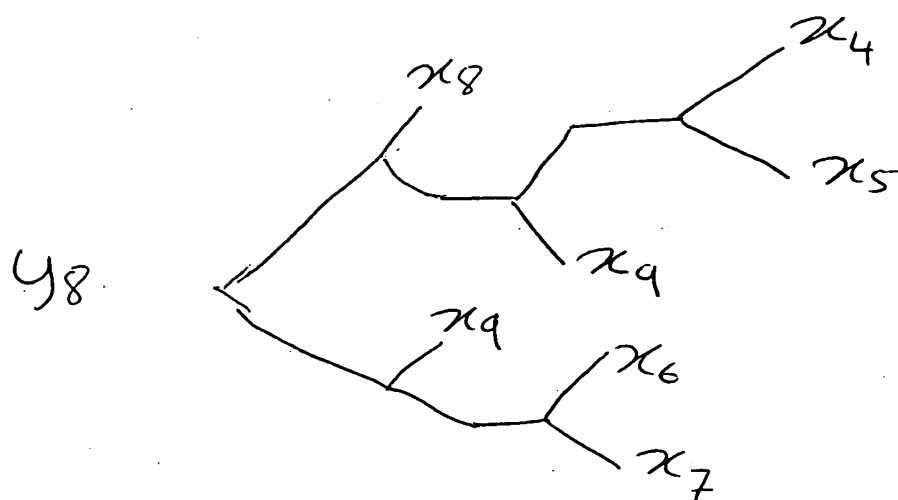


$$y_5 = \frac{1}{2} \left(\frac{1}{2} \left[x_5 + \frac{(x_6 + x_3)}{2} \right] + \frac{1}{2} \left(\frac{1}{2} \left[x_4 + \frac{(x_8 + x_9)}{2} \right] + \frac{1}{2} \left[x_7 + \frac{(x_1 + x_2)}{2} \right] \right) \right)$$

Figure 3B

$$y_8 = \frac{1}{16} (\pi_4 + \pi_5 + 2\pi_6 + 2\pi_7 + 4\pi_8 + 6\pi_9)$$

$$= \frac{1}{16} (\pi_4 + \pi_5 + 2\pi_6 + 2\pi_7 + 4\pi_8 + 4\pi_9 + 2\pi_9)$$



$$y_8 = \frac{1}{2} \left[\frac{1}{2} \left[\pi_9 + \left(\frac{\pi_6 + \pi_7}{2} \right) \right] + \frac{1}{2} \left[\pi_8 + \frac{1}{2} \left[\pi_9 + \left(\frac{\pi_4 + \pi_5}{2} \right) \right] \right] \right]$$

Figure 4